

California Regional Water Quality Control Board  
North Coast Region

Order No. R1-2001-##\*  
ID No. 1B740840SON

WASTE DISCHARGE REQUIREMENTS

FOR

DOMAINE ST. GEORGE WINERY  
1141 GRANT AVENUE  
HEALDSBURG, CALIFORNIA

Sonoma County

The California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board), finds that:

1. Somchai Likitprakong, president of Domaine St. George Winery (hereinafter discharger) submitted a Report of Waste Discharge dated February 25, 1999. The report describes the industrial process wastewater treatment and disposal system.
2. The discharger operates an established winery located at 1141 Grant Avenue, Healdsburg, within the Russian River drainage basin. The property is located within Sections 26 and 27, T8N, R9W, MDB&M as shown on Attachment "A". The facility is located near an unnamed tributary to the Russian River.
3. Activities at the winery include receiving, crushing and pressing of grapes, fermentation, processing into finished wines, bottling, and distribution. The discharger anticipates production to be 300,000 cases of wine per year. The discharger anticipates industrial wastewater flows will average 200 gallons per day in a calendar month, with a peak of 1500 gallons per day. During the grape crush, industrial wastewater flows will average 9,600 gallons per day and will peak at up to 13,400 gallons per day. Industrial wastewater consists primarily of washwater from the wine making process and related cleanup activities.
4. Wastewater is screened for solids removal, followed by a series of two treatment, storage and evaporation ponds. Treatment is primarily through oxidation by using aerators. The discharger discharges treated wastewater to land for drip and spray irrigation year round. To prevent runoff, no treated wastewater will be applied to the irrigation areas within two days of a forecasted rain event, during rainfall, 48 hours after a rainfall event or when soils are saturated. Irrigation/disposal operations will be routinely monitored to ensure against surface runoff and ponding.

5. Solid waste (pomace, stems, seeds, lees, etc.) from the wine making process will be incorporated back into the vineyard as a soil amendment, on land under the control of the discharger.
6. Domestic waste collection, treatment and disposal will utilize an existing septic tank system located adjacent to the winery building site.
7. The discharger is registered under the "Sonoma Green Business" program of the County of Sonoma Department of Emergency Services. All of the winery's production activities, including energy and water conservation, wastewater management, pollution prevention, recycling, and waste reduction meet the County's requirements for an environmentally sound business.
8. The Regional Water Board *Water Quality Control Plan for the North Coast Region* (Basin Plan) includes water quality objectives and receiving water limitations.
9. The beneficial uses of the Russian River and its tributaries include:
  - a. municipal and domestic supply
  - b. agricultural supply
  - c. industrial service supply
  - d. industrial process
  - e. groundwater recharge
  - f. navigation
  - g. hydropower generation
  - h. water contact recreation
  - i. non-contact water recreation
  - j. commercial and sport fishing
  - k. warm freshwater habitat
  - l. cold freshwater habitat
  - m. wildlife habitat
  - n. migration of aquatic organisms
  - o. spawning, reproduction, and/or early development of fish
  - p. estuarine habitat
  - q. aquaculture
10. Beneficial uses of areal groundwaters include:
  - a. domestic water supply
  - b. agricultural water supply
  - c. industrial service supply
  - d. industrial process supply
11. The discharge is presently governed by Waste Discharge Requirements Order No. 86-52 for Four Seas Investment Corp., dba Cambiaso Vineyards, adopted by the Regional Water Board on May 7, 1986. Order No. 86-52 is out of date, and this new Order will reflect changes in winery name and ownership, and changes in regulations and the Basin Plan.

12. The Regional Water Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
13. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.
14. The permitted discharge is consistent with the provisions of State Water Resources Control Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California". The impact on existing water quality will be insignificant.

THEREFORE, IT IS HEREBY ORDERED that Waste Discharge Requirements (Order No. 86-52) are rescinded and the discharger, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) and regulations adopted thereunder, shall comply with the following:

#### **A. DISCHARGE PROHIBITIONS**

1. The discharge of any waste not specifically regulated by this Order is prohibited.
2. Creation of a pollution, contamination, or nuisance, as defined by Section 13050 of the CWC, is prohibited.
3. The discharge of waste to land that is not under the control of the discharger is prohibited, except as authorized under **C. SOLIDS DISPOSAL**.
4. The discharge of untreated or partially treated waste from anywhere within the collection, treatment, or disposal facility is prohibited.
5. The discharge of untreated winery wastewaters shall be solely to the pond at all times.
6. The discharge of waste to the Russian River, its tributaries, or any other surface waters is prohibited.
7. The discharge of domestic waste, treated, or untreated, to surface waters is prohibited.
8. The use of treated wastewater shall be restricted to designated vineyards, pastures, or landscape irrigation areas.
9. Treated wastewater shall not be applied to the irrigation areas within two days of a forecasted rain event, during rainfall, 48 hours after a rainfall event or when soils are saturated.

10. The pond shall be operated and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
11. The pond shall have sufficient capacity to accommodate wastewater flow, groundwater infiltration, and seasonal precipitation during the rainy season.

## B. EFFLUENT LIMITATIONS

1. The discharge of treated wastewater to land by spray irrigation or frost protection shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Monthly Average</u> <sup>1</sup>	<u>Daily Maximum</u>
BOD (20° C, 5-day) <sup>2</sup>	mg/l	50	80
Settleable Solids	ml/l	0.2	1.0
Suspended Solids	mg/l	50	80

2. The discharge of treated wastewater to land by method of drip irrigation shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum</u>
BOD (20° C, 5-day)	mg/l	160
Total Suspended Solids	mg/l	80
Settleable Solids	mg/l	1.0

3. The mean daily flow of wastewater shall not exceed 4,900 gallons per day averaged over a calendar month except as provided for in B.4.
4. The mean daily wastewater flow shall not exceed 9,600 gallons per day as averaged over the crush period<sup>3</sup>.
5. The maximum daily wastewater flow shall not exceed 13,400 gallons per day.
6. The dissolved oxygen concentration in the treatment/holding ponds shall not be less than 1.0 mg/l at any time.
7. The discharger shall maintain at least 2 (two) feet of freeboard in the treatment/holding ponds.

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<sup>1</sup> The mean of all samples collected in a calendar month.

<sup>2</sup> Five-day, 20° Celsius Biochemical Oxygen Demand

<sup>3</sup> The crush period is defined as the time of year during which the facility is processing the seasonal grape harvest. A typical crush period is 60 days in length and may occur from August through November.

### **C. SOLIDS DISPOSAL**

1. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of at a legal point of disposal, and in accordance with the State Water Board promulgated provisions of Title 27, Division 2 of the California Code of Regulations or as waived pursuant to Section 13269 of the CWC.
2. Cultivated lands that receive solid wastes from the wine making process shall be managed to prevent ponding, runoff and erosion.
3. During wet weather conditions when solid wastes cannot be incorporated into the soil or hauled off-site for disposal, the solid wastes may be temporarily stored in a designated solids storage area out of the flood plain.
4. The discharge of leachate, from solids storage areas or rainfall runoff, which has come into contact with the solids being stored, to the Russian River or its tributaries, is prohibited.

### **D. WATER RECLAMATION REQUIREMENTS**

1. Reclaimed wastewater shall be managed in conformance with Title 22, Division 4, Chapter 3 of the California Code of Regulations.
2. The use of treated wastewater that results in unreasonable use or waste of the treated wastewater is prohibited.
3. The use of treated wastewater that creates a condition of pollution or nuisance is prohibited.
4. The discharger shall be responsible to insure that all users of treated wastewater comply with the terms and conditions of this Order.
5. Treated wastewater shall be applied in such a manner so as not to exceed vegetative demand or field capacity.
6. The application of treated wastewater shall be managed to prevent ponding, runoff, and erosion.
7. All piping, valves, and outlets shall be marked to differentiate treated wastewater from other sources of water.
8. There shall be no connection between a potable water supply and the treated wastewater distribution system.
9. There shall be no irrigation or impoundment of treated wastewater within 100 feet of any water well.

10. Adequate measures shall be taken to prevent the breeding of insects and other vectors of health significance.
11. Perimeter warning signs indicating use of non-potable water shall be posted at least every 500 feet with a minimum of a sign at each corner and access road.

#### **E. GENERAL PROVISIONS**

1. A copy of this Order shall be maintained at the discharge facility and be available at all times to operating personnel.

2. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

3. Operation and Maintenance

The discharger must maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

4. Change in Discharge

The discharger must promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.

5. Change in Ownership

In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger must notify the succeeding owner or operator of the following items by letter, a copy of which must be forwarded to the Regional Water Board:

- a. existence of this Order, and
- b. the status of the dischargers' annual fee account

6. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from his liability under federal, State, or local laws, nor create a vested right for the discharger to continue the waste discharge.

7. Monitoring

The discharger must comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program No. R1-2001-##\* and any modifications to these documents as specified by the Regional Water Board Executive Officer (Executive Officer). Such documents are attached to this Order and incorporated herein. Chemical, bacteriological, and bioassay analyses must be conducted at a laboratory certified for such analyses by the State Department of Health Services.

8. Inspections

The discharger shall permit authorized staff of the Regional Water Board to:

- a. enter the premises in which an effluent source is located or in which any required records are kept;
- b. have access to and copy any records required to be kept under terms and conditions of this Order;
- c. inspect monitoring equipment or records; and
- d. sample any discharge.

9. Noncompliance

In the event the discharger is unable to comply with any of the conditions of this Order due to:

- a. breakdown of waste treatment equipment;
- b. accidents caused by human error or negligence; or
- c. other causes such as acts of nature;

the discharger shall notify the Executive Officer by telephone as soon as the discharger or its agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.

10. Revision of Requirements

This Regional Water Board requires the discharger to file a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge. The Regional Water Board will review this Order periodically and may revise requirements when necessary.

Certification

I, Lee A. Michlin, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on March 22, 2001.

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Lee A. Michlin  
Executive Officer

\* Number will be issued when adopted

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